

AMENDMENT UNDER 37 C.F.R. §1.312  
Application No.: 10/759,139

Attorney Docket No.: Q79440

**AMENDMENTS TO THE SPECIFICATION**

**Please replace Table 1 at page 43 and Table 2 at page 44 with the following clearer  
copies of Tables 1 and 2:**

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Table 1

	Sample	Support	Amount of acid catalyst (ratio to TEOS in mol Eq)	Type of acid catalyst	Weight ratio of added polyvinyl alcohol to alkoxyallane (as SiO <sub>2</sub> )	Weight ratio of polyvinyl alcohol resin to silicon	Time from addition of acid catalyst to coating step (minutes)	25°C Si density (g/cm <sup>3</sup> )
Example 1	1	A	1	Hydrochloric acid	0.25	0.58	2	0.80
Example 2	2	B	1	Hydrochloric acid	0.25	0.58	2	0.80
Example 3	3	A	0.5	Hydrochloric acid	0.25	0.58	2	0.79
Example 4	4	A	0.8	Hydrochloric acid	0.25	0.58	2	0.78
Example 5	5	A	2	Hydrochloric acid	0.25	0.58	2	0.81
Example 6	6	A	1	Hydrochloric acid	0.25	0.58	1.5	0.78
Example 7	7	A	1	Hydrochloric acid	0.25	0.58	3	0.77
Example 8	8	A	1	Acetic acid	0.25	0.58	2	0.78
Example 9	9	A	1	Hydrochloric acid	0.25	0.58	2	0.68
Example 10	10	A	1	Hydrochloric acid	0.05	0.58	2	0.78
Example 11	11	A	1	Hydrochloric acid	0.12	0.23	2	0.85
Comparative Example 1	Comparative Sample 1	A	0.1	Hydrochloric acid	0.25	0.58	2	0.72
Comparative Example 2	Comparative Sample 2	B	0.1	Hydrochloric acid	0.25	0.58	2	0.72
Comparative Example 3	Comparative Sample 3	A	0.01	Hydrochloric acid	0.25	0.58	2	0.69
Comparative Example 4	Comparative Sample 4	A	0.01	Hydrochloric acid	0.25	0.58	30	0.71
Comparative Example 5	Comparative Sample 5	A	Large excess	Acetic acid resin *	0.25	0.58	2	0.72

\*1 Filtered immediately before coating

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Table 2

	Sample	Oxygen permeability (ml/m <sup>2</sup> ·day·atm)		Water vapor permeability (g/m <sup>2</sup> ·day)	Surface condition
		23°C 0%RH	23°C 90%RH		
Example 1	1	0.02 or lower	0.02 or lower	0.02 or lower	Good
Example 2	2	0.02 or lower	0.02 or lower	0.02 or lower	Good
Example 3	3	0.08	0.08	0.08	Good
Example 4	4	0.08	0.15	0.12	Good
Example 5	5	0.09	0.1	0.12	Good
Example 6	6	0.04	0.08	0.06	Good
Example 7	7	0.08	0.08	0.07	Good
Example 8	8	0.03	0.04	0.04	Good
Example 9	9	0.05	0.08	0.05	Good
Example 10	10	0.05	0.07	0.06	Good
Example 11	11	0.13	0.13	0.12	Good
Comparative Example 1	Comparative Sample 1	0.15	2.5	0.21	Good
Comparative Example 2	Comparative Sample 2	0.19	0.52	0.10	Good
Comparative Example 3	Comparative Sample 3	0.35	15.8	0.40	Good
Comparative Example 4	Comparative Sample 4	0.18	0.36	0.22	Good
Comparative Example 5	Comparative Sample 5	0.17	152	0.42	Good
Reference Example 1	Support A	296	343	0.41	Good
Reference Example 2	Support B	0.6	0.64	0.10	Good